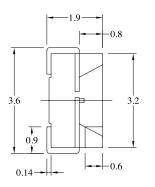
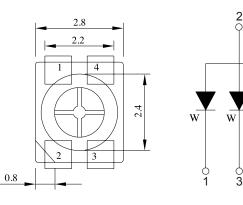


### Package Dimensions:







All dimensions are in mm

Tolerance: ±0.25mm

ă

**RoHS** 

Compliant

# Absolute Maximum Ratings at Ta=25°C

Symbol	Rating	Unit
Po	120	mW
Vr	5	V
lf	30	mA
If (Peak)	100	mA
Topr.	-40 to +100	°C
Tstg.	-40 to +100	°C
Tsld.	Reflow Soldering: 260°C for 10sec. Hand Soldering: 350°C for 3sec.	
ESD	6,000	V
	PD VR If If (Peak) Topr. Tstg. Tstd.	PD 120   VR 5   If 30   If (Peak) 100   Topr. -40 to +100   Tstg. -40 to +100   Tsld. Reflow Soldering: 260°C for 1 Hand Soldering: 350°C for 3se

\* The values are based on 1 die performance.

# **Electrical & Optical Characteristics:**

Parameter		Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity*2		lv	If = 20mA*1	3,159	5,500	-	mcd
Luminous Flux*2		Φν	If = 20mA*1	-	11,300	-	mlm
Forward Voltage*2		Vf	If = 20mA*1	-	3.2	4	V
	25			2,500	-	2,600	к
Correlated Colour Temperature* <sup>2</sup>	26	ССТ	CCT If = 20mA*1	2,600	-	2,700	
	27			2,700	-	2,900	
Colour Rendering Index (Ra)*2		CRI	If = 20mA*1	-	64	-	Ra
Reverse Current*1		lr	Vr=5V*1	-	-	50	μA
Viewing Angle*2		20 1⁄2	If = 20mA*1	-	120	-	deg

Note: 1. The data is tested by an IS tester

2. Customer's special requirements are also welcome.

3. \*1 For each die

4. \*2 When all LED dies are operated simultaneously

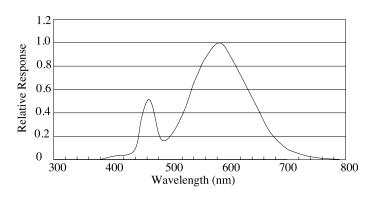
www.element14.com www.farnell.com www.newark.com

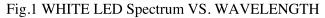


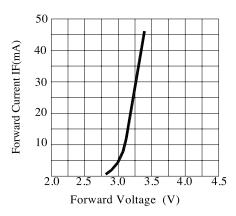


### **Typical Electrical & Optical Characteristics Curves:**

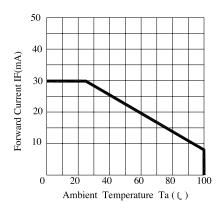
(25°C Ambient temperature unless otherwise noted)



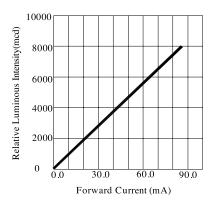




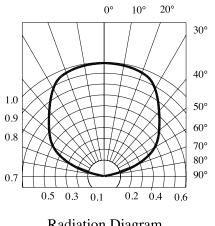
Forward Current VS. Applied Voltage



Ambient Temperature VS. Forward Current













#### **Recommended Storage Environment:**

- Temperature: 5°C to 30°C (41°F to 86°F)
- Humidity: 60% RH Max.
- Use within 7 days after opening of sealed vapour/ESD barrier bags

If moisture absorbent material (silica gel) has faded away or LEDs have exceeded the storage time, baking treatment should be performed using the following conditions:

- Baking Treatment : 60 ± 5°C for 24 hours
- · Fold the opened bag firmly and keep in dry environment

# Soldering

Reflow Soldering			Hand Soldering		
	Lead Solder	Lead-free Solder			
Pre-heat	12°C ~ 150°C	180°C ~ 200°C	Temperature	350°C Max.	
Pre-heat Time	120sec. max.	120sec. max	Soldering Time		
Peak Temperature	240°C max.	260°C max.		2000 May	
Soldering Time	10sec max.	10sec. max		3sec. Max (one time only)	
Condition	Refer to Temperature Profile 1	Refer to Temperature Profile 1			

\*After reflow soldering rapid cooling should be avoided.

# Temperature-profile (surface of circuit board)

Use the conditions shown under figure.

60sec. Max

<1 : Lead Solder >

2.5~5°C/sec

Pre-heating

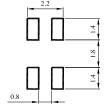
120~150°

120sec. May



# **Recommended Soldering Pad Design:**

Use the conditions shown under figure.



### Part Number Table

[	LED	LED Chip		Dort Number	
	Material	Emitting Colour	Lens Colour	Part Number	
[	InGaN / Sapphire	Warm White	Water clear	703-1032	

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